SBR No 37/14-15
DATED 26-2-15

EE/ELE/Y/BR.No 37/14-15

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

Dt. 26/2/15

No. First and final Date.....2010

Division: **Electricals** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....
Sub Divisional **Job Code –009-14-000072**

Schedule Docket No. Head of Account : P 0190:-

D.R.No. :

Name of Work: *Providing Illumination to Play Ground by arranging high mast pole & flood light*

Name of Contractor and Full Address: *M/S. Sri Bharathi Electricals*

Reference to Agreement No.EE/Elect/YZ/WO/05/2014-15 Date: 6/1/2015

Certified that the measurements were taken by me on 26.2.15 and recorded of Pages 310126 to 310135 of measurement Book No. / 3102 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 26.2.15 .....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Assistant Executive Engineer (Ele) BBMP, Bangalore
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	BILL = 16,5H.HH7=00
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	IT 1% 16.5HH=00 VAT 4% Amount 66.178=00 FSD 5% 82,722=00
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	LWC 1% 165HH=00 CBF 0.1% 1655=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No. dated.....less adjustments.	Total deductions 1,83,6H3=00
7)	Net amount due to or from Contractor unadjustments items.	Cheque = 14.70.80H=00
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Stamp

Dated Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P-0190.....
ರೂ:16,5H.HH7=00 ಅಡಿಟ್ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ
ರೂ:14,70,80H=00 ಚೆಕ್ ನಿರ್ವಹಿಸಲಾಗಿದೆ
ರೂ:1,83,6H3=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No.	Description of item	Unit
1	KSRB 2-1.1 : Earthwork in excavation for foundation of structures as per drawing and technical spcifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sided and bottom and backfilling with approved material complete as per specifications I.Ordinary soil - A Manual Means (i) Depth upto 3m MORTH Specification No.304. {Pg No.221 I.No. 27.1}	Cum
2	KSRB 4-1.3: Providing and laying in position plain cement concrete mix M7.5 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggreagtes @ 0.57cum machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWDSR 2012-13 Pg No-12, Item No-4.3)	Cum
3	KSRB 4.2.8 : Providing and laying in position **reinforced cement concrete of design mix M20** with OPC cementb@ 320kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, incluading cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(excluding cost of steel, fabrication & plastering)Specification No. KBS 4.1, 4.6 (PWD SR 2011-12 Page no-15, Item No.4.17)	Cum
4	KSRB 4.9.2 : Providing TMT steel reinforcement for R.C.C. work including straightening,cutting, bending, hooking, placing in position, lapping and / or welding wherever required,tying with binding wire and anchoring to the adjoining members wherever necessary complete,as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials,labour, HOM of machineries complete as per specifications. Specification No.KBS 4.6.3 (PWDSR 2012-13 Page no-19, Item No-4.46)	Qtl
5	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/ rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (PWDSR 2012-13 Page no-17, Item No-4.32)	Sqm
6	Fabrication, Supplying and erection of 16Mtrs long polygon high mast of bottom dia 475mm and top dia 150mm with two telescopic sections having bottom piece 8.25mtrs with 4mm thick and top piece 8.25Mtrs with 3mm thick as per BSEN 10025 grade S 355 JO steel sheet plate for shaft suitable to withstand a wind velocity of 180 kmph as per IS 875 part 3 (as per GA Drawing). Base plate having size 650mm dia 20mm thick with 8Nos of foundation bolts M25x850mm long and connected accessories as per IS 2062. The mast shall be hot dip Galvanized as per BSEN ISO1461 with an average 70 microns as per IS2629, and welded as per BS 5135 Single L-Seam joint. The mast shall have 2 way head frame with 4 nos of 190mm die cast LM-6 pulleys, Stainless steel axils, Phosphorus bearing bush press fitted with separate guides for 2 runs of 6mm dia stainless steel wire rope and 5 core 2.5sqmm EPR insulated PCP sheathed trailing power cable all are housed inside the bottom shaft of mast with suitable locking 275x1000mm hinged door. The mast shall have power tool having 1.0HP, 415V, 50Hz, 3phases reversible 960 rpm geared motor mast. The mast shall have lantern of 2 segments, 2370mm dia with max load of 350kgs carrying capacity as per IS 1239. The mast shall be erected on existing 1700mm depth of shallow shaft RCC footing. The mast shall be supplied	Each
7	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete a) 16 SWG	Sqcm
8	Supplying.....amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. b) 250Amps 4x30x10mm Alluminium Strips	Rmtr
	a) 100Amps 4x30x6mm Alluminium Strips	Rmtr
9	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.b) Group B	Rmtr
10	Supplying, fixing and wiring 50/5 to 400/5 Amps 5 VA burden Current Transformer, Class 0.5 accuracy with Tape Wound. a) Group A	Each
11	Supplying, fixing and wiring 0 to 600 Volts 96x96mm AC Voltmeter on existing panel/wood board. Group 'A'	Each
12	Supplying, fixing and wiring 0 to 1500 amps CT operated AC analog type Ammeter (With out CT)	Each
13	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs, P.	Amount	Qty	Cost	
0	0.00	52.5	60.95	3199.88	52.5	3199.88	
0	0.00	1.82	2812.00	5117.84	1.82	5117.84	
0	0.00	13.1	4142.00	54260.20	13.1	54260.20	
0	0.00	5.87	6000.00	35220.00	5.87	35220.00	
0	0.00	40.68	200.00	8136.00	40.68	8136.00	
0	0.00	4	169777.00	679108.00	4	679108.00	
0	0.00	94575	0.30	28372.50	94575	28372.50	
0	0.00	7.5	2000.00	15000.00	7.5	15000.00	
0	0.00	5.8	1200.00	6960.00	5.8	6960.00	
0	0.00	3	120.00	360.00	3	360.00	
0	0.00	3	120.00	360.00	3	360.00	
0	0.00	1	120.00	120.00	1	120.00	
0	0.00	1	220.00	220.00	1	220.00	
0	0.00	1	200.00	200.00	1	200.00	

14	Supplying, fixing and wiring rotary selector switch suitable for voltmeter	Each
15	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F.screws.	Sqcm
16	Supplying of on load change over switches 4 poles, 415V, 50Hz, AC Supply with AC-23A Duty.e) 400 Amps 1) Group 'A'	Each
17	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring thermal Magnetci Microprocessed release and Earth Fault as per IS-13947. (Icu=Ics)THREE POLE a) 100 Amps 25 kA,1) Group 'A'	Each
18	Supply and Installation/Fixing/Provision for mounting of HRC Fuse /MCB with suitable connector/teminal for 3 Ph/1 Ph connections with Loop-in & Loop-Out terminals for 10 Sqmm/25 sqmm 3.5 C Al/AR/Cu/AR Cable and branchout 2.5 Sqmm 2 Core Al/Cu PVC insulated cable, enclosure, which should be shock proof, safe IP 65 (Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP 65 Thermoplastic, Polyamide glands and /or grommets.b) 260x210x116mm	Each
19	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I. GI Stripa) 25x3mm	Per mtr
20	Supplying, fixing wiring earth electrode for gounding conduits, I.C.Cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12 mm dia.	Each
21	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable	
	e) 3.5 core 25sqmm	Per Mtr
	g) 3.5 core 50sqmm	Per Mtr
22	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.	
	b) 25 sqmm to 75 sqmm	Rmtr
23	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr
24	Supplying High pressure... Watts Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminium housing with low copper content black/grey powder coated pain finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply with---- watts HP metal halide lamps. VI 2X400 Watts a) Group 'A'	Each
25	Supplying High pressure sodium vapour street light fitting die cast aluminium canopy with aluminium housing for control gear, finished stove enamel gray glassy white canopy interior with a pair of anodized aluminium reflectors with toughened flat glass, gasket lining for drip insect resistance duly wired with porcelain holder copper choke, igniter and HPF condenser including a sodium vapour lamp.II 250 Wattsa) Group 'A'	Each
26	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete.b) Using 32mm dia G.I pipe	Each
27	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class a. 40 mm	Each
	TOTAL	

Certificate:- 1. The Above said Work has been carriedout satisfactorily

2. Amount Claimed in this bill has not been claimed in any of the previous bill

Assistant Executive Engineer
BBMP, Bangalore

	0.00	1	160.00	160.00	1	160.00	
0	0.00	19875	0.10	1987.50	19875	1987.50	
0	0.00	1	16500.00	16500.00	1	16500.00	
0	0.00	6	3000.00	18000.00	6	18000.00	
0	0.00	6	1200.00	7200.00	6	7200.00	
0	0.00	9.8	45.00	441.00	9.8	441.00	
0	0.00	8	1200.00	9600.00	8	9600.00	
0	0.00	635	167.00	106045.00	635	106045.00	
0	0.00	115	190.00	21850.00	115	21850.00	
0	0.00	750	5.00	3750.00	750	3750.00	
0	0.00	685	20.00	13700.00	685	13700.00	
0	0.00	32	16000.00	512000.00	32	512000.00	
0	0.00	20	4850.00	97000.00	20	97000.00	
0	0.00	20	385.00	7700.00	20	7700.00	
0	0.00	14.8	127.00	1879.60	14.8	1879.60	
	0.00			**1654447.52**		**1654447.52**	